

Applic. No. 10/650,054

Amdt. dated August 3, 2005

Reply to Office action of May 3, 2005

Claim Amendments

8/16/05
Do Not
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S. Kewmy

This listing of the claims will replace all prior versions,
and listings, of claims in the application:

Claim 1 (currently amended): A method for producing a
honeycomb body having a predetermined number of sheet metal
layers from at least one supply roll, at least some of the
sheet metal layers being at least partially structured sheet
metal layers having structures making it possible for a fluid
to flow through the honeycomb body, the honeycomb body having
an interior with a predetermined cohesive free volume for
receiving a measurement sensor, which comprises the steps of:

- a) selecting a section of a sheet metal strip from the supply
roll for forming a sheet metal layer of appropriate size;
- b) identifying the sheet metal layer;
- c) reading at least one associated hole position and at least
one associated hole edge from a memory to be formed in the
sheet metal layer;
- d) constructing at least one hole with the hole edge in the
sheet metal layer at the at least one associated hole position

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and, if required, ~~structuring of~~ corrugating at least a portion of the section;

e) if required, separating the section from the supply roll;

f) repeating steps a) to f) for forming the predetermined number of the sheet metal layers;

g) if required, stacking the predetermined number of the sheet metal layers corresponding to an identification of the sheet metal layers;

h) if required, repeating steps a) to h) for producing at least two sheet metal stacks;

i) winding at least one of the sheet metal layer and at least one of the sheet metal stacks to form a honeycomb structure with smooth and corrugated sheet metal layers forming channels through which a fluid can flow;

j) introducing the honeycomb structure into a casing tube;

k) introducing the measurement sensor at a predetermined position into the honeycomb structure and the casing tube; and